

**Ministry of Science and Higher Education of Kazakhstan Republic
Pavlodar Pedagogical University named after Alkey Margulan**

Approved by the Dean of
the Higher School of
Natural Sciences

 E. Gabdullin



2023

**DEVELOPMENT PLAN
Educational program "8D01550 Biology"
for 2023-2026**

Approved at the meeting
Quality Committee
from _____ 20 ____,
protocol No. __

Analysis of the educational program 8D01550 "Biology"

The educational program 8D01550 "Biology" was developed in accordance with the State Educational Standard of the Republic of Kazakhstan, the Professional Standard of a Teacher, the National Qualifications Framework, and is consistent with the Dublin descriptors and the European Qualifications Framework.

The educational program is formed on the basis of a competency-based approach to design and has a modular format.

Requirements for admission of students to an educational program are determined by the Standard Rules for Admission to Study in Educational Organizations Implementing Educational Programs of Higher and (or) Postgraduate Education.

Applicants entering the educational program (EP) take entrance exams in accordance with the "Model rules for admission to study in educational organizations implementing educational programs of higher and postgraduate education", approved by Order of the Minister of Education and Science of the Republic of Kazakhstan dated October 31, 2018 No. 600.

Awarded degree: Doctor of Philosophy in the educational program 8D01550 "Biology".

The purpose of the educational program 8D01550 "Biology" is to prepare a biology teacher, possessing communicative, linguistic, research, management, creative and leadership qualities.

OP tasks:

- ensuring high-quality professional training for future biology teachers in accordance with the social order of society and international education standards;
- training of future biology teachers and methods of teaching biology for higher educational institutions;
- formation of competencies among future biology teachers: key, professional and special;
- mastering methods of physical, spiritual and intellectual self-development, developing psychological literacy, culture of thinking and behavior.

Structure and content of the educational program 8D01550 "Biology" developed with the participation of highly qualified teaching staff of the university.

The EP development plan is formed taking into account the availability of financial, information, labor, material and technical resources, and is based on the mission of the university in accordance with the principles, goals, and objectives. Tasks for the implementation of the EP are discussed annually at a meeting of the Higher School of Economics and approved by the Faculty's Educational and Methodological Council. The EP development plan is consistent with the activities of the PPU Development Strategy for 2020-2024, which is focused on achieving the goals and key indicators defined by the Strategic Plans of the PPU, the Ministry of Education and Science of the Republic of Kazakhstan, and the State Education Development Program of the Republic of Kazakhstan. The head of the EP analyzes

the results of monitoring and periodic evaluation of the EP development plan, which provides for:

- Changing needs of society and the professional environment.
- Analysis of student performance.
- Graduation and employment.
- Employers' satisfaction with the quality of graduates' training.
- Compliance of the educational environment and student support services with the goals of the educational program.
- Student satisfaction with the content of EP training.

In order to fully inform all stakeholders about the results of the implementation of the quality assurance policy 8D01550 "Biology" Meetings are held with the invitation of employers and students. Also, modular educational programs and plans for the development of EP are communicated to interested parties and employers for review through the website of the higher school.

To improve the quality of EP training, teachers widely use innovative teaching methods: practical work in most disciplines is carried out using computer equipment and specialized software. There are specialized rooms and laboratories

Every year, teachers of the program participate in the academic mobility program within and abroad. Teachers of the program publish educational and methodological literature, textbooks, and electronic publications taking into account national development priorities and the university development strategy. The realism and effectiveness of this educational program has already been experimentally tested and has shown its relevance and viability.

In order to effectively implement the educational program, work is constantly being carried out to introduce active and innovative teaching methods, which helps doctoral students learn active ways to acquire new knowledge, allows them to master a higher level of social activity, also stimulates the creative abilities of students and helps to form functional literacy.

**Development plan for the educational program 8D01550 Biology
for 2023-2026**

No · p/ p	Events	Period of execution	Responsible	Mechanism implementation
1	External assessment of the quality of the university's activities and the satisfaction of consumers of educational services	February 2024 2025	Tulindinova G.K., Geldymamedova E.A.	Preparation for accreditation of the educational program and for subsequent post-accreditation monitoring (every two years)
2	Implementation of the policy of admission and retention of doctoral students	2023-2024, 2024-2025 academic year	Tulindinova G.K.	Bring the indicative recruitment plan for doctoral students to 2 people
3		2023-2024, 2024-2025 academic year	Tulindinova G.K.	The share of students studying under government orders from the total number of doctoral students is up to 100%.
4		2023-2024, 2024-2025 academic year	Tulindinova G.K.	Ensuring the safety of the doctoral student population 100%.
5	Professional guidance, agitation, early profiling of doctoral and master's students of PSPU and other universities	2023-2024, 2024-2025 academic year	Teaching staff EP Biology	The share of teachers and teachers covered by career guidance activities is up to 100%
6		2023-2024, 2024-2025 academic year	Teaching staff EP Biology	Annual formation of a database of PPU graduates focused on further postgraduate education
7		2023-2024, 2024-2025 academic year	Teaching staff EP Biology	Conducting image publications in the media, appearances on TV and radio up to 7 events per year
8	Providing the labor market with competitive specialists	2023-2024, 2024-2025 academic year	Teaching staff EP Biology	The share of graduates who studied under the state educational order and were employed in the first year after graduation in their specialty is up to 100%
9		2023-2024, 2024-2025 academic year	Teaching staff EP Biology	Doctoral student success rate up to 100%

10	Modernization of the content of higher education in the context of global trends	April-May 2024	Tulindinova G.K., Korogod N:P.,	Educational program developed on the basis of teacher professional standards(once a year).
eleven		May 2024	Tulindinova G.K., Korogod N:P.,	Update of elective disciplines introduced into educational programs taking into account the recommendations of employers(once a year)
12		2023-2024, 2024-2025 academic year	teaching staff	Adjusting the content of educational programs taking into account the modernization of education
15		September 2023	teaching staff	Increase the number of teaching staff who speak the state language at the level of teaching academic disciplines, from the total number of full-time teaching staff to 75%
16	Information and library resources	2023-2024, 2024-2025 academic year	Korogod N.P., Tulindinova G:K..	Number of digital educational resources developed - electronic educational publications 1 per year
17	Ensuring the contribution of science to accelerated economic diversification and sustainable development of the country	December 2024	Tulindinova G.K., Zhumabekova B.K.	Number of laboratories certified and accredited by accreditation and certification centers (1)
18		2023-2024, 2024-2025 academic year	Teaching staff of the department	Participation in competitive events held at the university and stimulating the research activities of doctoral students and young scientists - 2
19		2023-2024, 2024-2025 academic year	Teaching staff of the department	Conducting joint scientific research with universities and research centers in Kazakhstan and abroad - 1
20		2023-2024, 2024-2025 academic year	Teaching staff of the department	The share of teaching staff participating in the implementation of fundamental and applied programs (5% of the university teaching staff)
21		2023-2024, 2024-2025 academic year	Teaching staff of the department	Share of publications in scientific journals with a non-zero impact factor - 2
22		2023-2024, 2024-2025 academic year	Tulindinova G.K.,	Number of published monographs based on the results of scientific research - 1
23		2023-2024, 2024-2025 academic year	Tulindinova G.K., Korogod N.P.	Number of doctoral winners (awarded first, second and third degrees) of republican and

				international scientific conferences, olympiads, competitions - 1
24		2023-2024, 2024-2025 academic year	Tulindinova G.K., Korogod N.P.	The share of full-time doctoral students involved in the scientific activities of the university is 100%
25	Increasing civic activity of youth and nurturing new Kazakhstani patriotism in the context of the national idea "Mangilik El"	2023-2024, 2024-2025 academic year	Aliyasova V.N.	Carrying out events aimed at promoting the idea of "Mangilik El" and fulfilling the objectives of the Messages of the President of the Republic of Kazakhstan (training seminars, round tables, promotions, meetings, etc.) – 3 per year
26		2023-2024, 2024-2025 academic year	Aliyasova V.N.	Conducting explanatory work on the issue of combating corruption at the university with the involvement of authorized government bodies and youth organizations of the university - 2 events per year
27		2023-2024, 2024-2025 academic year	Aliyasova V.N.	Carrying out a set of awareness-raising activities to prevent crime and spread the ideas of destructive religious sects among young people with the involvement of law enforcement agencies and the clergy (Once a school year there are training seminars, round tables, promotions, meetings, etc.).
28	Coverage of youth with cultural, leisure and preventive activities to reduce social risks	2023-2024, 2024-2025 academic year	Aliyasova V.N.	The share of doctoral students involved in the work of circles is 33%
				The share of doctoral students involved in the work of sports sections is 33%
				The share of dotkorants participating in regional, republican and international creative competitions, shows, intellectual games, sports competitions and tournaments is 30%
29	Strengthening human resources and increasing labor efficiency	2023-2024, 2024-2025 academic year	Tulindinova G.K., Kabieva S.Zh.	Staffing of the teaching staff according to the staffing schedule is 100%
thirty		2023-2024, 2024-2025 academic year	Tulindinova G.K., Kabieva S.Zh.	Staffing with full-time teaching staff of educational institutions of the total number of employees, including in each area of training 100%
31		2023-2024, 2024-2025 academic year	Tulindinova G.K., Kabieva S.Zh.	100% staffing of educational teaching staff with basic education

32		2023-2024, 2024-2025 academic year	Tulindinova G.K., Kabieva S.Zh.	Staffing of EP teaching staff with academic degrees and titles from regular teaching staff is 100%
33		2023-2024, 2024-2025 academic year	Tulindinova G.K., Kabieva S.Zh.	Irreducible percentage of teaching staff degree about 100%
34	Increasing the scientific potential and level of methodological and fundamental training of university teaching staff through advanced training, internships in scientific centers of the republic and abroad	2023-2024, 2024-2025 academic year	Korogod N.P., Tulindinova G.K.	Number of teaching staff who have undergone advanced training within the country at the expense of the state budget (at least 2 teaching staff annually) Increasing the share of teaching staff of EP that meet the requirements for supervision of master's theses (at least 3 teaching staff)

Head of EP Biology



G. Tulindinova

**Chairman of the Quality Committee
of the Higher School of Natural Science**



S. Kabieva